June 7, 1932. L. F. HADDEN 1,861,528

DISPENSING DEVICE

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Fig. 1.

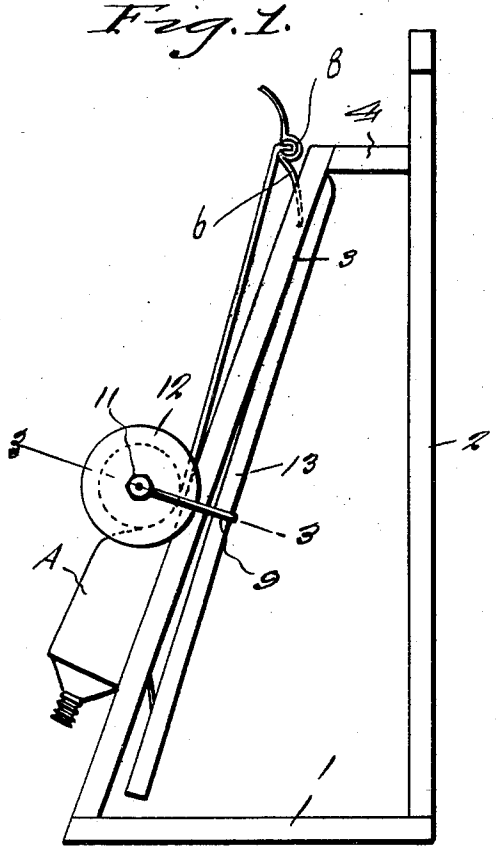


Fig. 2.

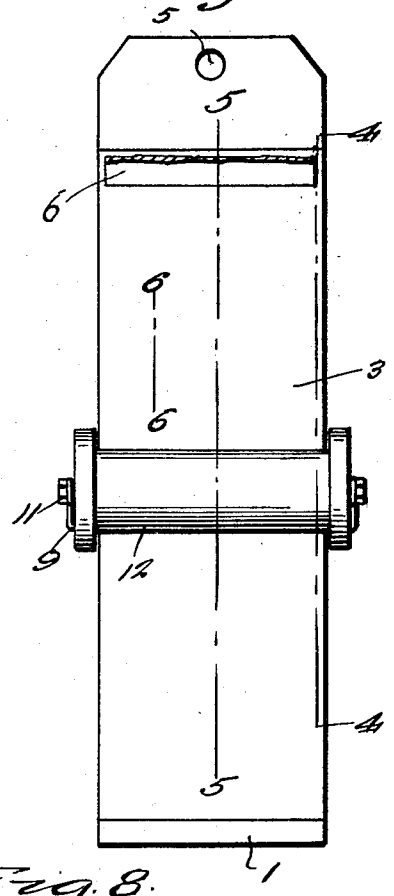


Fig. 3.

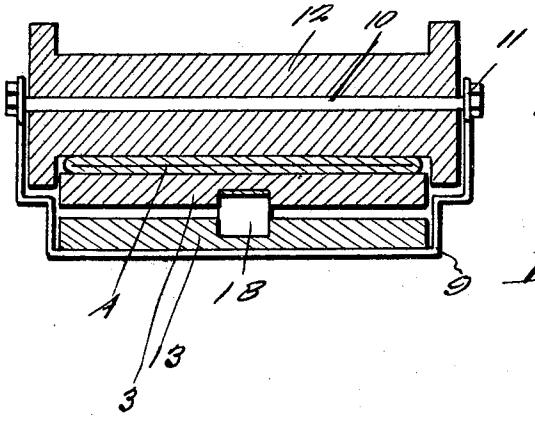
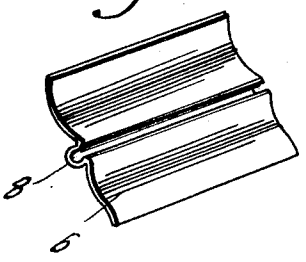


Fig. 8.



Inventor

L. F. Hadden

By Clarence A. O'Brien

Attorney

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DISPENSING DEVICE

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Fig. 4.

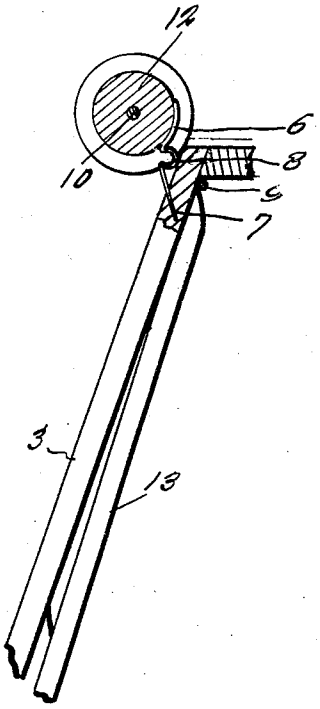


Fig. 5.

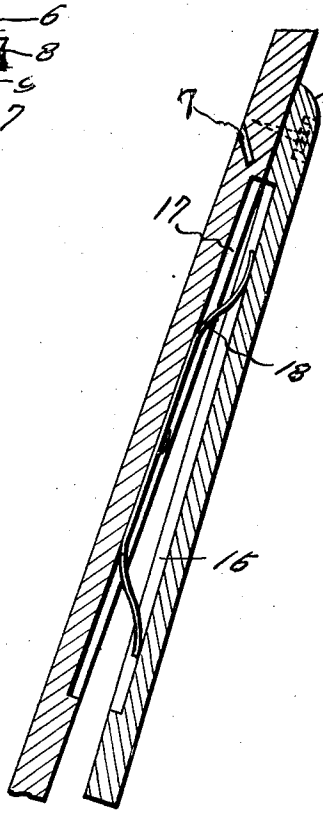


Fig. 2.

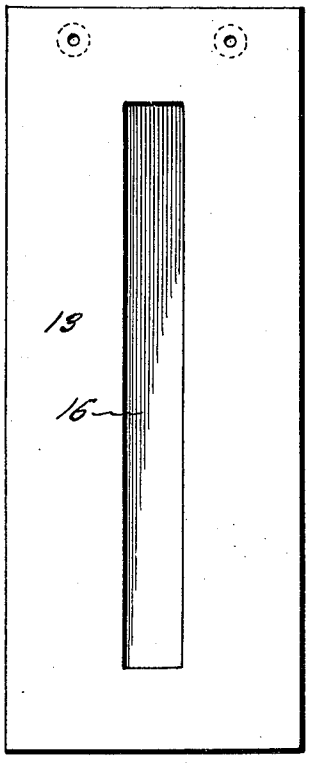
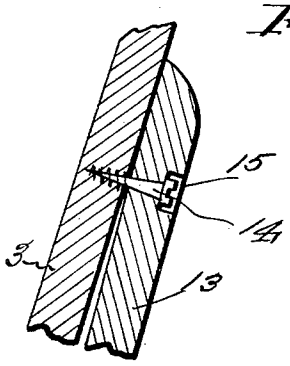


Fig. 6.



Inventor

L. F. Hadden

By Clarence A. O'Brien

Attorney

Patented June 7, 1932 1,861,528

UNITED STATES PATENT OFFICE

LAWRENCE F. HADDEN, OF KANSAS CITY, MISSOURI

DISPENSING DEVICE

Application filed October 14, 1931. Serial No. 568,813.

This invention relates to a dispensing device, the general object of the invention being to provide means whereby paste or the like can be readily forced from a tube.

Another object of the invention is to provide means for holding a roller carrier which forms part of the pressure means for the tube in the position to which said carrier has been placed.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing the invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is an elevation of the device showing a tube partly compressed by the follower thereof.

Fig. 2 is a front view with the tube removed.

Fig. 3 is a section on line 3—3 of Fig. 1.

Fig. 4 is a section on line 4—4 of Fig. 2.

Fig. 5 is a section on line 5—5 of Fig. 2.

Fig. 6 is a section on line 6—6 of Fig. 2.

Fig. 7 is a front view of the back plate.

Fig. 8 is a view of a portion of the spring plate for holding the closed end of the tube on the inclined plate.

In these drawings, the numeral 1 indicates a base plate, to the rear edge of which the lower end of a plate 2 is connected and to the front edge of which the lower end of a diagonally arranged plate 3 is connected.

A short plate 4 connects the upper end of the plate 3 with an upper part of the plate 2, and the upper end of the plate 2 has a hole 5 therein for receiving a nail or the like, by which the device can be suspended from a wall. A spring plate 6 has one end placed in a slot 7 formed in the front face of the upper portion of the plate 3 and said plate 6 is bent to form a loop 8 for receiving the closed end of a collapsible tube A as shown in Fig. 1.

By pressing upon the top portion of the spring plate the loop 8 will be opened so that the closed end of the tube can be placed therein, and then by releasing the top part of the plate, the loop is closed on the end of the tube to hold the same in place.

A yoke member 9 fits over the plate 3 and has eyes at the ends of its limb for receiving the end of a shaft 10, the said ends being threaded to receive the nuts 11 which hold the shaft in the eyes. A flanged roller 12 is carried by the shaft.

A plate 13 is movably fastened in the rear face of the plate 3 by the screws 14, the heads of which are placed in the countersunk holes 15 in its upper end of said plate 13, with the front face of this plate 13 having a longitudinal groove 16 therein, and the rear face of the plate 3 has a similar groove 17 therein; a leaf spring 18 has a central part fastened in the groove 17 and its bent end engaging the groove 16 so that this spring tends to force the plate 13 away from the plate 3. The upper end of the plate 13 has its front face engaging the plate 3 in such a manner that said plate 13 has a certain amount of movement on the screws 14, so that it can move toward and away from the plate 13, it being understood that the spring 18 holds the plate 13 in its rearmost position as shown in Fig. 5.

The upper end of this plate 13 is beveled or rounded as shown at 19, so that as the yoke member is moved downwardly from the plate 3, it will ride over the rounded end 19 onto the plate 13 and thus the roller will be caused to press upon the tube A to press the material therefrom. As the roller is moved downwardly with the yoke, the plate 13 is pressed inwardly against the action of the spring 18 and the action of the spring 18 tends to move the plate 13 rearwardly and will cause the roller to fully compress the tube as shown in Fig. 1. The plate 13 with its spring holds the roller in its adjusted position and takes up all slack between the tube and roller.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be

made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

Having thus described my invention, what I claim as new is:—

1. A device of the class described comprising a plate for supporting a tube of paste or the like, means at one end of the plate for engaging the closed end of the tube, a yoke-shaped member embracing the plate and slidably arranged thereon, a roller journalled in the ends of the yoke-shaped member for pressing the tube between itself and the plate as the yoke-shape member is moved along the plate, a second plate on the first plate and over which the yoke member passes, and a spring between the two plates for pressing the second plate away from the first plate.

2. A device of the class described comprising a plate for supporting a tube of paste or the like, means at one end of the plate for engaging the closed end of the tube, a yoke-shaped member embracing the plate and slidably arranged thereon, a roller journalled in the ends of the yoke-shaped member for pressing the tube between itself and the plate as the yoke-shaped member is moved along the plate, a second plate on the first plate and over which the yoke member passes, a spring between the two plates for pressing the second plate away from the first plate, said plates having registering grooves therein in one of which the spring is fastened and the other of which receives a part of the spring.

3. A device of the class described comprising a plate for supporting a tube of paste or the like, means at one end of the plate for engaging the closed end of the tube, a yoke-shaped member embracing the plate and slidably arranged thereon, a roller journalled in the ends of the yoke-shaped member for pressing the tube between itself and the plate as the yoke-shaped member is moved along the plate, a second plate on the first plate and over which the yoke member passes, a spring between the two plates for pressing the second plate away from the first plate, said plates having registering grooves therein in one of which the spring is fastened and the other of which receives a part of the spring, and means for pivotally connecting one end of the second plate with the first plate.

In testimony whereof I affix my signature.

LAWRENCE F. HADDEN.